

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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(US20070232598/PN)

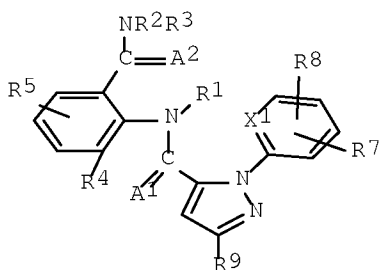
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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:470209 CAPLUS Full-text
DOCUMENT NUMBER: 143:2638
TITLE: Synergistic insecticidal compositions
comprising
nicotinic receptor agonists and antagonists
and
anthranilic acid amides
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer,
Ruediger;
Hungenberg, Heike; Andersch, Wolfram;
Thielert,
Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005048711	A1	20050602	WO 2004-EP12328	
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GB, GD,	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,			
KZ, LC,	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,			
NA, NI,	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,			
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,			
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 KR 2006123281 A 20061201 KR 2006-711342
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 20031114 DE 2004-102004006075A
 20040207 WO 2004-EP12328 W
 20041030
 OTHER SOURCE(S): MARPAT 143:2638
 GI



I

AB Synergistic insecticidal compns. comprising nicotinic receptor agonists and antagonists RNACX:XE [R= H, (un)substituted acyl, alkyl, aryl, etc.; A = H, acyl, alkyl, aryl, etc; E = electron receptor; X = CH or N; Z = alkyl, OR, SR or NR2; ANCZ = cycle] and anthranilic acid amides I [A1, A2 = O or S; X1 = N or C10; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, the substituents being R6, halo, CN, etc.; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, etc.; R3 = H, alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, etc.; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R6 = CH(:E1), LCH(E1), etc.; E1 = O, S, NH, N:S:O, N(NO)2, etc.; L = O, S, NH, etc.; R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl, haloalkoxy or halosulfinyl].

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 131748-59-9/RN

L2 1 131748-59-9/RN

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RN 131748-59-9 REGISTRY
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-
(CA

INDEX NAME)

OTHER NAMES:

CN CGA 322704

MF C6 H8 Cl N5 O2 S

CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, CIN, TOXCENTER,
USPAT2,

USPATFULL

DT.CA CAPLUS document type: Journal; Patent

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(Preparation); PROC

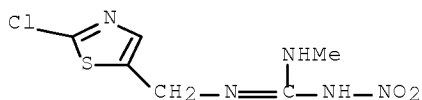
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RLD.P Roles for non-specific derivatives from patents: BIOL
(Biological

study); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU
(Occurrence);

PREP (Preparation); PRP (Properties)



<http://www.cas.org/support/stngen/stdoc/properties.html>

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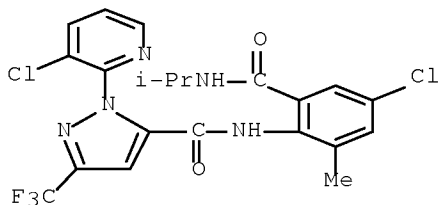
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

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RN 852326-20-6 REGISTRY
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[[1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)
MF C21 H18 Cl2 F3 N5 O2 . C9 H10 Cl N5 O2
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 500008-00-4

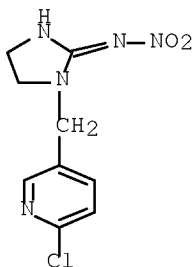
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CRN 138261-41-3

CMF C9 H10 Cl N5 O2



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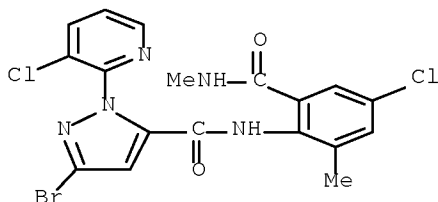
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RN 500008-45-7 REGISTRY
ED Entered STN: 19 Mar 2003
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA
INDEX NAME)
OTHER NAMES:
CN Altacor
CN Chlorantraniliprole
CN Coragen
CN DKI 0001
CN DPX-E 2Y45
CN E 2Y45
CN Rynaxypyr
DR 921612-71-7
MF C18 H14 Br Cl2 N5 O2
CI COM
SR CA

LC STN Files: ANABSTR, CA, CAPLUS, CASREACT, CBNB, RTECS*,
 TOXCENTER,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 271 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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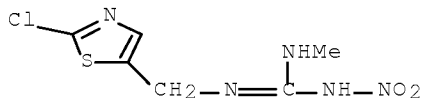
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 RN 131748-59-9 REGISTRY
 ED Entered STN: 01 Feb 1991
 CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-
 (CA
 INDEX NAME)
 OTHER NAMES:
 CN CGA 322704
 MF C6 H8 Cl N5 O2 S
 CI COM
 SR CA

LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, CIN, TOXCENTER,
USPAT2,
USPATFULL



=> S 852326-21-7/RN

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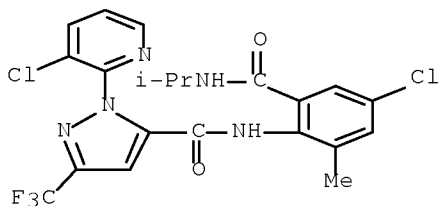
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THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

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RN 852326-21-7 REGISTRY
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]cyanamide (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H18 Cl2 F3 N5 O2 . C10 H9 Cl N4 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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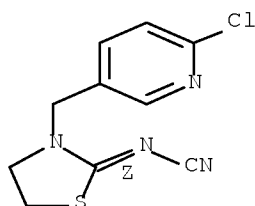


CM 2

CRN 111988-49-9

CMF C10 H9 Cl N4 S

Double bond geometry as shown.



<http://www.cas.org/support/stngen/stdoc/properties.html>

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L8 1 852326-22-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
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=> D L8 SQIDE 1-

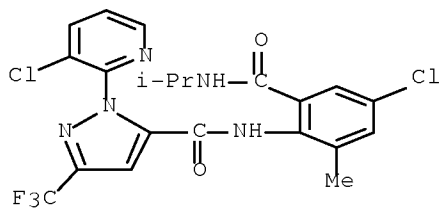
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THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852326-22-8 REGISTRY
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H18 Cl2 F3 N5 O2 . C6 H8 Cl N5 O2 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 500008-00-4

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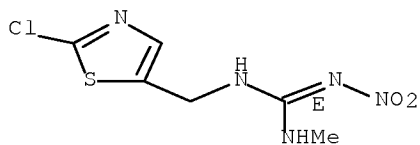


CM 2

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



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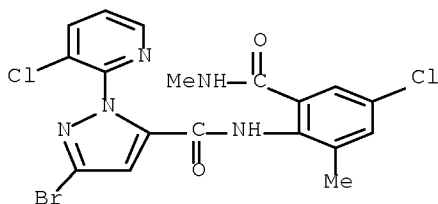
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L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 500008-45-7 REGISTRY
 ED Entered STN: 19 Mar 2003
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
 [(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA
 INDEX NAME)
 OTHER NAMES:
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 CN Chlorantraniliprole
 CN Coragen
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 CN DPX-E 2Y45
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 CN Rynaxypyr
 DR 921612-71-7
 MF C18 H14 Br Cl2 N5 O2
 CI COM
 SR CA
 LC STN Files: ANABSTR, CA, CAPLUS, CASREACT, CBNB, RTECS*,
 TOXCENTER,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 271 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 210880-92-5 REGISTRY

ED Entered STN: 06 Sep 1998

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-,
[C(E)]-

(CA INDEX NAME)

OTHER NAMES:

CN Apacz

CN Arena

CN Belay

CN Celero

CN Clothianidin

CN Clutch

CN Clutch (insecticide)

CN Dantotsu

CN Fullswing

CN Poncho

CN Takeloc CLMN 10

CN Takeloc MC 50E

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FS STEREOSEARCH

DR 205510-53-8

MF C6 H8 Cl N5 O2 S

CI COM

SR CA

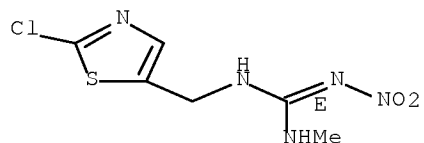
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ULIDAT,

USPAT2, USPATFULL

(*File contains numerically searchable property data)

Double bond geometry as shown.



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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DOCUMENT NUMBER:      138:267201
TITLE:                Pesticidal compositions for coating plant
propagation
                        material containing anthranilamides
INVENTOR(S):          Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S):   E. I. Du Pont de Nemours & Co., USA
SOURCE:               PCT Int. Appl., 147 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:        Patent
LANGUAGE:             English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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WO 2002-US30302

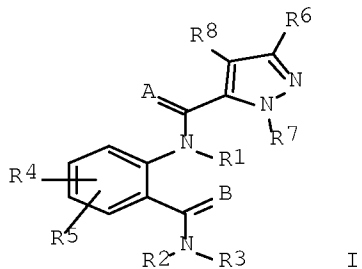
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20020910 <--

OTHER SOURCE(S):

MARPAT 138:267201

GI



AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

=> d 117 ibib abs ti hitind 2-3

L17 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:154155 CAPLUS Full-text

DOCUMENT NUMBER: 138:200332

TITLE: Arthropodicidal anthranilamides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson,

Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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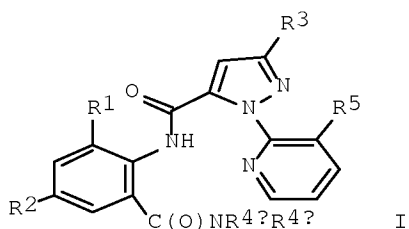
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OTHER SOURCE(S):		MARPAT 138:200332		
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AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for

controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurstaki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:154154 CAPLUS Full-text

DOCUMENT NUMBER: 138:200331

TITLE: Method for controlling particular insect pests by

INVENTOR(S): applying anthranilamide compounds
 Frederick; Patel, Lahm, George Philip; McCann, Stephen

Thomas Kanu Maganbhai; Selby, Thomas Paul; Stevenson,

PATENT ASSIGNEE(S): Martin
 SOURCE: E. I. Du Pont de Nemours & Co., USA
 PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

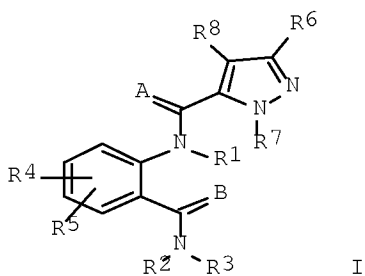
FAMILY ACC. NUM. COUNT: 4

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20020813 <--	WO 2002-US25613	W
20040107	US 2004-483115	A1
20040108	IN 2004-MN13	A3
OTHER SOURCE(S): MARPAT 138:200331		
GI		



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

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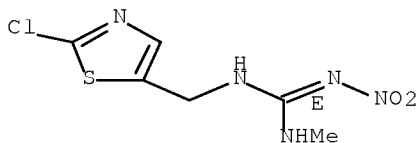
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=> d 119

L19 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 210880-92-5 REGISTRY
ED Entered STN: 06 Sep 1998
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-,
[C(E)]-
(CA INDEX NAME)
OTHER NAMES:
CN Apacz
CN Arena
CN Belay
CN Celero
CN Clothianidin
CN Clutch
CN Clutch (insecticide)
CN Dantotsu
CN Fullswing
CN Poncho
CN Takeloc CLMN 10
CN Takeloc MC 50E
CN TI 435
CN TM 44401
CN V 10170
FS STEREOSEARCH
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ULIDAT,
USPAT2, USPATFULL
(*File contains numerically searchable property data)

Double bond geometry as shown.



=> s 119 and synerg?

613 L19

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L20 75 L19 AND SYNERG?

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4506011 AY<2003

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L21 12 L20 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 121 ti abs ibib hitind 1-12

L21 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticide mixture preparation of azadirachtin and
 neonicotine series insecticides
 AB The title preparation contains azadirachtin 0.05-80, neonicotine
 series insecticides 1-80, and addnl. adjuvant to 100%. The
 preparation can be emulsible concentrate, wettable powder, oil
 suspension, microemulsion, capsule, water dispersible powder,
 effervescent tablet, etc. The azadirachtin may be from
 Azadirachta indica oil, Azadirachta indica extract, or crude
 azadirachtin; and the neonicotine from flonicamid, clothianidin,
 dinotefuran, nithiazine, thiacloprid, acetamiprid, etc. The
 product has long acting period.

ACCESSION NUMBER: 2004:830370 CAPLUS Full-text
 DOCUMENT NUMBER: 141:327128
 TITLE: Synergistic insecticide mixture preparation
 of azadirachtin and neonicotine series
 insecticides
 INVENTOR(S): Xu, Hanhong; Tian, Yongqing
 PATENT ASSIGNEE(S): Huanan University of Agriculture, Peop. Rep.
 China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu,
 18 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1175742	C	20041117		
PRIORITY APPLN. INFO.:			CN 2002-134906	
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IC ICM A01N065-00				
CC 5-4 (Agrochemical Bioregulators)				
ST azadirachtin neonicotine synergistic insecticide formulation				
Thiacloprid Acetamiprid				
IT Azadirachta indica				
Pesticide formulations				
(synergistic insecticide mixture preparation of azadirachtin				
and				
neonicotine series insecticides)				
IT Insecticides				
(synergistic; synergistic insecticide mixture preparation				
of azadirachtin and neonicotine series insecticides)				
IT 11141-17-6, Azadirachtin A 58842-20-9, Nithiazine 95507-03-2,				
Azadirachtin B 99399-65-2, Azadirachtin D 111988-49-9,				
Thiacloprid				
118855-02-0, Azadirachtin F 134788-15-1, Azadirachtin H				
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Azadirachtin K				
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150824-47-8,

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165252-70-0, Dinotefuran 210880-92-5, Clothianidin
724428-47-1, Azadirachtin L

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticide mixture preparation of azadirachtin

and

neonicotine series insecticides)

L21 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal, acaricidal, nematocidal, and
bactericidal compositions, and pest control with them

AB Title compns. contain GC6H4C(CN):C(A)OB [A = (un)substituted
heterocyclyl; B = H, C1-4 haloalkyl, tetrahydropyranyl, SiMe3,
alkali metal, etc.; G = H, halo, C1-6 alkyl, (un)substituted C3-6
cycloalkyl, C1-4 haloalkoxy, C1-4 alkylsulfinyl, C1-4
alkylsulfonyl, NO2, CN, naphthyl, etc.] and ≥ 1 compds. chosen from
conventional pesticides, e.g. anilazine, benalaxyl, benomyl,
binapacryl, etc. Thus, concomitant use of 2-(4-chlorophenyl)-3-
(1,3,4-trimethylpyrazol-5-yl)-3-hydroxyacrylonitrile and Ca
polysulfide showed synergistic acaricidal activity against Aculops
pelekassi.

ACCESSION NUMBER: 2004:447099 CAPLUS Full-text

DOCUMENT NUMBER: 141:2859

TITLE: Synergistic insecticidal, acaricidal,
nematocidal, and bactericidal compositions,

and pest

control with them

INVENTOR(S): Miyake, Toshiro; Inoue, Kohei

PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 88 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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ICS	A01N029-12; A01N037-02; A01N037-36; A01N041-02; A01N043-36; A01N043-58; A01N043-76; A01N043-78; A01N043-80; A01N047-14; A01N047-24; A01N047-34; A01N055-04; A01N057-10; A01N057-14; A01N057-16; A01N059-02; C07D231-12				
CC	5-4 (Agrochemical Bioregulators)				
	Section cross-reference(s): 25				
ST	synergistic acaricide acrylonitrile calcium polysulfide; insecticide nematocide bactericide synergistic acrylonitrile				
IT	Fungicides (agrochem., synergistic; preparation of acrylonitriles and synergistic pesticides containing them)				

IT Lentinula edodes
(extract; preparation of acrylonitriles and synergistic
pesticides
containing them)

IT Acaricides
Antibacterial agents
Insecticides
Nematocides
(synergistic; preparation of acrylonitriles and
synergistic pesticides containing them)

L21 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Fenoxanil-containing bactericidal and insecticidal composites

AB The title pesticidal composite contains fenoxanil, and at least
one bactericide or at least one insecticide. The bactericide may
be from carpropamid, jinggangmycin, bismethiazol, isocyanuric
acid, oxolinic acid; and the insecticide from triazophos,
chlorpyrifos, pyraclofos, pyrethrins (etofenprox), buprofezin,
monosultap, bisultap, cartap, fipronil, acetamiprid, nitenpyram,
imidacloprid, dinotefuran, thiamethoxam, thiacloprid and
clothianidin. The ratio of fenoxanil to another bactericide is
1:15-15:1 for the binary compound; and the ratio of fenoxanil :
another bactericide : insecticide is from 1:1-20:1-30 to 20:1-
The concentration of the available component in the compound is
0.05-99.5%. The product is highly effective against rice disease.

ACCESSION NUMBER: 2003:1008669 CAPLUS Full-text

DOCUMENT NUMBER: 140:194924

TITLE: Fenoxanil-containing bactericidal and
insecticidal

composites

INVENTOR(S): Hu, Naidong; Ma, Yunsheng; Shi, Qingling

PATENT ASSIGNEE(S): Guo, Xiao, Peop. Rep. China; Wang, Lijuan;
Hao,

Chunyan

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu,
12 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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IC ICM A01N047-40				
CC 5-6 (Agrochemical Bioregulators)				
IT Cooperative phenomena				

(synergism; fenoxanil-containing bactericidal and insecticidal
composites)

IT 87-90-1, Trichloroisocyanuric acid 108-80-5D, Isocyanuric acid, chloro
 and bromo derivs. 108-94-1, Cyclohexanone, biological studies
 151-21-3, Sodium dodecylsulfate, biological studies 1343-98-2,
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 Bismethiazol 80844-07-1, Etofenprox 89784-60-1, Pyraclofos
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 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (fenoxanil-containing bactericidal and insecticidal composites)

L21 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal mixtures

AB Synergistic insecticidal mixts. contain clothianidin and
 abamectin, emamectin or emamectin benzoate, methiocarb, β -
 cyfluthrin or λ -cyhalothrin.

ACCESSION NUMBER: 2003:610145 CAPLUS Full-text

DOCUMENT NUMBER: 139:129421

TITLE: Synergistic insecticidal mixtures

INVENTOR(S): Andersch, Wolfram; Erdelen, Christoph;

Jeschke, Peter

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany

SOURCE: PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

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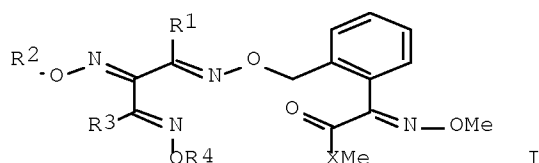
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 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10203688 A1 20030807 DE 2002-10203688
 20020131 <--
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 CA 2474086 A1 20030807 CA 2003-2474086
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 EP 1473997 A1 20041110 EP 2003-701526
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 BR 2003007356 A 20041214 BR 2003-7356
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 CN 1646017 A 20050727 CN 2003-807691
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 CN 100360028 C 20080109
 NZ 534368 A 20060224 NZ 2003-534368
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 CN 1895048 A 20070117 CN 2006-10100199
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 CN 101107929 A 20080123 CN 2007-10006746
 20030120 <--
 AU 2003202575 B2 20081113 AU 2003-202575
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 EG 23409 A 20050621 EG 2003-77
 20030127 <--
 ZA 2004005968 A 20050727 ZA 2004-5968
 20040727 <--
 MX 2004007298 A 20041029 MX 2004-7298
 20040728 <--
 US 20050222051 A1 20051006 US 2004-502527
 20041117 <--
 US 7097848 B2 20060829
 US 20060194747 A1 20060831 US 2006-415811
 20060502 <--
 AU 2008243057 A1 20081127 AU 2008-243057
 20081031 <--
 PRIORITY APPLN. INFO.: DE 2002-10203688 A
 20020131 <--
 AU 2003-202575 A3
 20030120 CN 2003-807691 A3
 20030120 WO 2003-EP478 W
 20030120 US 2004-502527 A3
 20041117
 IC ICM A01N051-00

ICS A01N053-00; A01N043-90; A01N053-08; A01N047-22
 CC 5-4 (Agrochemical Bioregulators)
 ST synergism insecticide clothianidin mixt
 IT Insecticides
 (synergistic; compns. containing clothianidin)
 IT 210880-92-5D, Clothianidin, mixts. containing 411221-42-6
 569342-67-2, Clothianidin-abamectin mixture 569342-69-4
 569342-71-8
 569342-73-0 569342-75-2
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic insecticidal composition)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
 FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L21 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic fungicidal mixtures of oxime ether derivatives with
 clothianidin
 GI



AB Synergistic fungicidal mixts. comprise an oxime ether derivs. I (X
 = NH or O; R1, R3 = H, cyano, alkyl, cyclopropyl, or haloalkyl; R2
 , R4 = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, or
 haloalkynyl) and clothianidin.

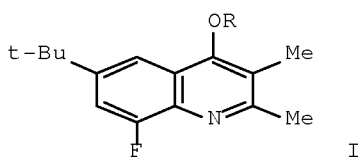
ACCESSION NUMBER: 2003:570704 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 139:96697
 TITLE: Synergistic fungicidal mixtures of oxime
 ether derivatives with clothianidin
 INVENTOR(S): Grote, Thomas; Ammermann, Eberhard; Stierl,
 Reinhard;
 Lorenz, Gisela; Stammler, Gerd; Schelberger,
 Klaus;
 Haden, Egon
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003059067 A1 20030724 WO 2003-EP12
 20030103 <--
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
 CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
 GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,
 OM, PH,
 PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
 TT, TZ,
 UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK,
 TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2003205564 A1 20030730 AU 2003-205564
 20030103 <--
 CN 1615079 A 20050511 CN 2003-802271
 20030103 <--
 CN 1320855 C 20070613
 JP 2005524623 T 20050818 JP 2003-559243
 20030103 <--
 IN 2004CN01794 A 20060224 IN 2004-CN1794
 20040811 <--
 PRIORITY APPLN. INFO.: DE 2002-10201794 A
 20020117 <--
 WO 2003-EP12 W

20030103
 OTHER SOURCE(S): MARPAT 139:96697
 IC ICM A01N047-44
 ICS A01N037-36
 CC 5-2 (Agrochemical Bioregulators)
 ST synergism fungicide oxime ether deriv mixt clothianidin
 IT Fungicides
 (synergistic; mixts. of oxime ether derivs. with
 clothianidin)
 IT 560069-47-8
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal composition)
 IT 210880-92-5D, Clothianidin, mixts. with oxime ether derivs.
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal comps.)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L21 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticidal fungicidal compositions for rice paddy,
 and method for control of insects in rice paddy
 GI



AB Title compns. contain quinolines I (R = H, COR1, CO2R1, COCH2OMe, COCH2OCMe; R1 = C1-4 alkyl) or their salts and insecticides for rice paddy. Thus, a wettable composition containing 20 ppm I (R = Ac) and 100 ppm MEP showed 100% fungicidal activity against *Pyricularia oryzae* and 97% insecticidal activity against *Laodelphax striatellus*.

ACCESSION NUMBER: 2003:143338 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 138:182512
TITLE: Synergistic insecticidal fungicidal compositions for rice paddy, and method for control of insects in rice paddy
INVENTOR(S): Teraoka, Takeshi; Matsumura, Makoto
PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003055115	A	20030226	JP 2001-246035	
20010814 <--				
PRIORITY APPLN. INFO.:			JP 2001-246035	
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OTHER SOURCE(S): MARPAT 138:182512				
IC ICM A01N043-42				
ICS A01N031-14; A01N043-40; A01N043-56; A01N043-88; A01N047-12; A01N047-22; A01N051-00; A01N055-00; A01N057-12; A01N057-14				
CC 5-4 (Agrochemical Bioregulators)				
ST MEP quinoline synergistic insecticide fungicide rice; agrochem fungicide insecticide MEP quinoline rice				
IT Fungicides				
(agrochem.; synergistic insecticidal fungicidal compns. containing quinolines for rice paddy)				
IT Insecticides				
Oryza sativa				
(synergistic insecticidal fungicidal compns. containing quinolines for rice paddy)				

L21 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic fungicidal and plant growth stimulating composition

AB A mixture of fludioxonil, metalaxyl and a strobilurin fungicide achieves markedly enhanced action against plant pathogens and is suitable for improving the growth of plants when applied to plants, parts of plants, seeds, or at their locus of growth. Optionally, the composition comprises a neonicotinoid or phenylpyrazole insecticide as well.

ACCESSION NUMBER: 2002:977567 CAPLUS Full-text
DOCUMENT NUMBER: 138:34684
TITLE: Synergistic fungicidal and plant growth stimulating composition
INVENTOR(S): Watrin, Clifford
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102148	A2	20021227	WO 2002-US18933	
20020613 <--				
WO 2002102148	A3	20030327		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2449831	A1	20021227	CA 2002-2449831	
20020613 <--				
AU 2002306164	A1	20030102	AU 2002-306164	
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US 20030130119	A1	20030710	US 2002-170902	
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US 7071188	B2	20060704		
EP 1416793	A2	20040512	EP 2002-734796	
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
MX 2003011494	A	20040319	MX 2003-11494	
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PRIORITY APPLN. INFO.:
20010614 <--

US 2001-298171P P
WO 2002-US18933 W

20020613 <--

L21 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticide mixtures containing sodium channel blockers

AB The invention relates to synergistic insecticidal mixts. containing at least one sodium ion channel blocker and (Z)-3-(6-chloro-3-pyridylmethyl)-1,3-thiazolidin-2-ylidenecyanamide or (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine or 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.

ACCESSION NUMBER: 2002:555277 CAPLUS Full-text

DOCUMENT NUMBER: 137:105180

TITLE: Synergistic insecticide mixtures containing sodium channel blockers

INVENTOR(S): Bretschneider, Thomas; Fuchs, Rainer; Andersch,

Wolfram; Ebbinghaus-Kintscher, Ulrich;

Erdelen,

Christoph

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002056691	A1	20020725	WO 2002-EP59	
20020107 <--				
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DE 10134720	A1	20020725	DE 2001-10134720	
20010717 <--				
IN 2001MU01216	A	20050304	IN 2001-MU1216	
20011226 <--				
AU 2002228035	A1	20020730	AU 2002-228035	

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 EP 1359803 A1 20031112 EP 2002-709996
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 EP 1359803 B1 20071219
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
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 BR 2002006550 A 20040622 BR 2002-6550
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 JP 2004521888 T 20040722 JP 2002-557210
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 CN 1714645 A 20060104 CN 2005-10084426
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 CN 100415097 C 20080903
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 TW 244892 B 20051211 TW 2002-91100634
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 ZA 2003005484 A 20040906 ZA 2003-5484
 20030716 <--
 MX 2003006481 A 20041015 MX 2003-6481
 20030718 <--
 US 20040063703 A1 20040401 US 2003-250877
 20030910 <--
 AU 2007203226 A1 20070802 AU 2007-203226
 20070710 <--
 PRIORITY APPLN. INFO.: DE 2001-10102544 A
 20010119 <-- DE 2001-10134720 A
 AU 2002-228035 A3
 20020107 <-- CN 2002-803928 A3
 WO 2002-EP59 W
 20020107 <--
 IC ICM A01N047-38
 ICS A01N047-38; A01N051-00; A01N047-42
 CC 5-4 (Agrochemical Bioregulators)
 ST synergism insecticide mixt sodium channel blocker
 IT Sodium channel blockers
 (mixts. containing; synergistic insecticidal compns.)
 IT Insecticides
 (synergistic; mixts. containing sodium channel blockers)
 IT 111988-49-9 138261-41-3, 1-[(6-Chloro-3-pyridinyl)methyl]-N-
 nitro-2-
 imidazolidinimine 210880-92-5
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (mixts. with sodium channel blockers; synergistic
 insecticidal compns.)
 IT 443096-57-9, Indoxacarb-imidacloprid mixture 443096-58-0,

Indoxacarb-clothianidin mixture 443096-60-4, Indoxacarb-thiacloprid mixture
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal composition)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal and acaricidal compns. containing neem extract

AB The title compns. comprise neem seed extract and any of 35 known insecticides and acaricides.

ACCESSION NUMBER: 2002:428627 CAPLUS Full-text

DOCUMENT NUMBER: 137:1951

TITLE: Synergistic insecticidal and acaricidal compns. containing neem extract

INVENTOR(S): Baron, Gerhard; Kilian, Michael; Rosenfeldt, Frank

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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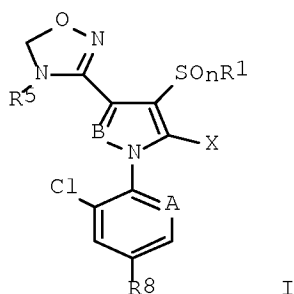
WO 2002043496	A2	20020606	WO 2001-EP13340	
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WO 2002043496	A3	20020829		
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,				
GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,				
OM, PH,				
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,				
TZ, UA,				
UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT,				
BE, CH,				
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE, TR,				
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,				
TD, TG				
DE 10059606	A1	20020606	DE 2000-10059606	
20001201 <--				
AU 2002018304	A	20020611	AU 2002-18304	
20011119 <--				
EP 1339288	A2	20030903	EP 2001-998148	
20011119 <--				

EP 1339288 B1 20070418
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 AT 359709 T 20070515 AT 2001-998148
 20011119 <--
 ES 2284731 T3 20071116 ES 2001-998148
 20011119 <--
 US 20040052878 A1 20040318 US 2003-432979
 20031003 <--
 PRIORITY APPLN. INFO.: DE 2000-10059606 A
 20001201 <--

L21 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic pesticides in rice paddies
 AB A synergistic pesticide contains an insecticide like clothianidin,
 a microbicide like isoprothiolane, and a herbicide. A number of
 Markush structures of pesticides are claimed.
 ACCESSION NUMBER: 2002:384278 CAPLUS Full-text
 DOCUMENT NUMBER: 136:381758
 TITLE: Synergistic pesticides in rice paddies
 INVENTOR(S): Akayama, Atsuo; Yamawaki, Takahiro
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002145709	A	20020522	JP 2001-259699	
20010829 <--				
PRIORITY APPLN. INFO.:			JP 2000-260812	A
20000830 <--				
OTHER SOURCE(S):	MARPAT	136:381758		
IC ICM A01N047-38				
ICS A01N037-22; A01N037-24; A01N041-04; A01N043-10; A01N043-76;				
A01N043-78; A01N043-86; A01N047-12; A01N047-36; A01N051-00				
CC 5-3 (Agrochemical Bioregulators)				
ST synergism insecticide microbicide herbicide rice				
IT Fungicides				
Herbicides				
Insecticides				
Molluscicides				
(in synergistic pesticides for rice paddies)				
IT Pyricularia oryzae				
(synergistic pesticides for rice paddies for control of)				
IT 15263-52-2, Cartap hydrochloride 50512-35-1, Isoprothiolane				
122548-33-8, Imazosulfuron 125306-83-4, Cafenstrole 210880-92-5				
, Clothianidin				
RL: AGR (Agricultural use); BSU (Biological study, unclassified);				
BIOL				
(Biological study); USES (Uses)				
(in synergistic pesticides for rice paddies)				

IT 108-62-3, Metaldehyde 27605-76-1 41814-78-2 51218-49-6,
 Pretilachlor
 57369-32-1 73250-68-7, Mefenacet 79540-50-4, Etobenzanid
 85785-20-2,
 Esprocarb 88678-67-5, Pyributicarb 104030-54-8 110956-75-7,
 Pentoxazone 115852-48-7 135158-54-2 152542-38-6 153197-14-
 9,
 Oxaziclomefone 158237-07-1, Fentrazamide
 RL: AGR (Agricultural use); BSU (Biological study, unclassified);
 BIOL
 (Biological study); USES (Uses)
 (in synergistic pesticides in rice paddies)
 IT 427893-57-0
 RL: AGR (Agricultural use); BSU (Biological study, unclassified);
 BIOL
 (Biological study); USES (Uses)
 (synergistic pesticides for rice paddies)
 IT 220305-15-7 427893-58-1 427893-59-2 427893-60-5 427893-61-
 6
 427893-62-7 427893-63-8 427893-64-9 427893-65-0
 RL: AGR (Agricultural use); BSU (Biological study, unclassified);
 BIOL
 (Biological study); USES (Uses)
 (synergistic pesticides in rice paddies)
 L21 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synergistic insecticidal compositions containing oxadiazoline
 derivatives, insect control, and enhancement of insecticidal
 action of the
 derivatives
 GI



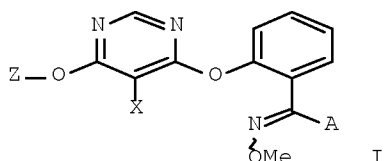
AB Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6 haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrrolyl; R5 = (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6

haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n =1, R1 = R8 = CF3, R5 = CONMe2, A = CCl, B = N, X = N:CHOCHMe2) (preparation given) and clothianidin showed synergistic action against Plutella maculipennis larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

ACCESSION NUMBER: 2001:423412 CAPLUS Full-text
DOCUMENT NUMBER: 135:30294
TITLE: Synergistic insecticidal compositions
containing oxadiazoline derivatives, insect
control,
and enhancement of insecticidal action of the
derivatives
INVENTOR(S): Akayama, Atsuo
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001158785	A	20010612	JP 1999-340604	
19991130 <--				
PRIORITY APPLN. INFO.:			JP 1999-340604	
19991130 <--				
OTHER SOURCE(S):	MARPAT	135:30294		
IC ICM C07D413-04				
ICS A01N043-836; C07D413-14				
CC 5-4 (Agrochemical Bioregulators)				
Section cross-reference(s): 28				
ST oxadiazoline deriv synergistic insecticide; clothianidin				
oxadiazoline deriv synergistic insecticide				
IT Fungicides				
(agrochem.; preparation of insecticidal oxadiazoline derivs.				
and				
synergistic agrochem. insecticides containing them)				
IT Insecticides				
(preparation of insecticidal oxadiazoline derivs. and				
synergistic				
agrochem. insecticides containing them)				
IT Insecticides				
(synergistic; preparation of insecticidal oxadiazoline derivs.				
and				
synergistic agrochem. insecticides containing them)				

L21 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic fungicidal compositions.
GI



AB The title compns. comprise the pyrimidine derivs. I [Z = (un)substituted Ph; X = halo; A = heterocyclyl, CO₂Me or CHNHMe] and any of a large number of known fungicides.

ACCESSION NUMBER: 2000:349202 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 132:344443

TITLE: Synergistic fungicidal compositions.

INVENTOR(S): Mauler-Machnik, Astrid; Wachendorf-Neumann, Ulrike;

PATENT ASSIGNEE(S): Gayer, Herbert
Bayer A.-G., Germany

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19939841	A1	20000525	DE 1999-19939841	
19990823 <--				
IN 1999BO00745	A	20050304	IN 1999-BO745	
19991102 <--				
CA 2351500	A1	20000602	CA 1999-2351500	
19991108 <--				
WO 2000030440	A2	20000602	WO 1999-EP8558	
19991108 <--				
WO 2000030440	A3	20000831		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,			
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	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,			
	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,			
	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,			
	DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,			

	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
AU 2000010460	A	20000613	AU 2000-10460
19991108 <--			
AU 752441	B2	20020919	
BR 9915518	A	20010717	BR 1999-15518
19991108 <--			
EP 1130963	A2	20010912	EP 1999-953975
19991108 <--			
EP 1130963	B1	20050302	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
	IE, SI, LT, LV, FI, RO		
TR 200101379	T2	20011121	TR 2001-1379
19991108 <--			
HU 2001004483	A2	20020328	HU 2001-4483
19991108 <--			
HU 2001004483	A3	20020429	
TR 200103810	T2	20020621	TR 2001-3810
19991108 <--			
TR 200103811	T2	20020621	TR 2001-3811
19991108 <--			
JP 2002530297	T	20020917	JP 2000-583338
19991108 <--			
CN 1157118	C	20040714	CN 1999-813518
19991108 <--			
EP 1506711	A2	20050216	EP 2004-24463
19991108 <--			
EP 1506711	A3	20050427	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
MC, PT,			
	IE, FI, CY		
AT 289750	T	20050315	AT 1999-953975
19991108 <--			
PT 1130963	T	20050630	PT 1999-953975
19991108 <--			
ES 2238853	T3	20050901	ES 1999-953975
19991108 <--			
TW 521994	B	20030301	TW 1999-88119807
19991115 <--			
US 6559136	B1	20030506	US 2001-856023
20010516 <--			
MX 2001005029	A	20000827	MX 2001-5029
20010518 <--			
US 20030161896	A1	20030828	US 2003-371770
20030221 <--			
PRIORITY APPLN. INFO.:			DE 1998-19853559 A1
19981120 <--			
			DE 1999-19939841 A
19990823 <--			
			EP 1999-953975 A3
19991108 <--			
			WO 1999-EP8558 W
19991108 <--			
			US 2001-856023 A3
20010516 <--			
OTHER SOURCE(S):	MARPAT 132:344443		
IC ICM A01N043-54			

CC 5-2 (Agrochemical Bioregulators)
ST pyrimidine deriv fungicide synergism
IT Fungicides
(synergistic; compns. containing pyrimidine derivs.)

=> s 119 and acetylcholin?

613 L19

99752 ACETYLCHOLIN?

L22 41 L19 AND ACETYLCHOLIN?

=> s 122 and (agonist? or antagonist?)

174079 AGONIST?

273680 ANTAGONIST?

L23 31 L22 AND (AGONIST? OR ANTAGONIST?)

=> s 123 and (py<2003 or ay<2003 or pry<2003)

22983883 PY<2003

4506011 AY<2003

3975367 PRY<2003

L24 5 L23 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 124 ibib abs ti hitind

L24 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:175092 CAPLUS Full-text

DOCUMENT NUMBER: 138:349994

TITLE: Clothianidin: a novel broad-spectrum
neonicotinoid

insecticide

AUTHOR(S): Ohkawara, Y.; Akayama, A.; Matsuda, K.;
Andersch, W.

CORPORATE SOURCE: Takeda Chemical Industries, Ltd., Tsukuba,
Ibaraki,

300-4293, Japan

SOURCE: BCPC Conference--Pests & Diseases (2002),
(Vol. 1), 51-58

CODEN: BCDCAE

PUBLISHER: British Crop Protection Council

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Clothianidin (TI-435) is a novel neonicotinoid insecticide, acting as an agonist of nicotinic acetylcholine receptor (nAChR). This compound has minimal adverse effects against vertebrates. The potent agonistic action of clothianidin was observed only on insect nAChR, but not on vertebrate ones, indicating that the compound has selective toxicity for insects over vertebrates. Laboratory studies have demonstrated that clothianidin is highly active against not only hemipterous insects but also coleopterous, thysanopterous, dipterous and some lepidopterous pests. Since this compound possesses excellent root systemic properties, it can be used by various application methods. In field trials, clothianidin exhibited excellent control of insect pests by foliar application, paddy water application, soil application and seed treatment. Because of its broad spectrum of insecticidal activity, good systemic properties and low mammalian toxicity, clothianidin is a compound that is considered to be compatible with integrated pest management strategies.

TI Clothianidin: a novel broad-spectrum neonicotinoid insecticide
CC 5-4 (Agrochemical Bioregulators)
IT 210880-92-5, Clothianidin:
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(clothianidin as broad-spectrum neonicotinoid insecticide)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

=> d 124 ibib abs ti hitind 2-5

L24 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:586328 CAPLUS Full-text
DOCUMENT NUMBER: 138:132444
TITLE: Evaluation of affinity of neonicotinoid
insecticides
for rat brain nicotinic acetylcholine
receptors by [3H] epibatidine-binding assay
AUTHOR(S): Okumoto, Takashi; Ozoe, Yoshihisa
CORPORATE SOURCE: Department of Life Science and Biotechnology,
Faculty
of Life and Environmental Science, Shimane
University,
Matsue, Shimane, 690-8504, Japan
SOURCE: Nippon Noyaku Gakkaishi (2002), 27(2),
145-146
CODEN: NNGADV; ISSN: 0385-1559
PUBLISHER: Nippon Noyaku Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The affinity of neonicotinoids for rat brain nAChRs was evaluated
under the optimized (3H)EPI-binding conditions. Imidacloprid,
acetamiprid, and clothianidin exhibited higher activity than did
the other compds.; these three compds. at 10 μ M inhibited specific
(3H)EPI binding by 60.6, 56.3, and 33.6% resp. The other
compds., including the enantiomers of dinotefuran, had little
inhibitory activity at 10 μ M, indicating almost no significant
interaction with $\alpha 4\beta 2$ -nAChRs in rat brain. Given that the IC50
values of imidacloprid and acetamiprid are approx. 10 μ M, the Ki
values, calculated according to the Cheng-Prusoff equation, was
.apprx.5 μ M. Electrophysiol., imidacloprid was reported to be a
partial agonist with an ECs, of >79 μ M in chicken $\alpha 4\beta 2$ -nAChRs
expressed in Xenopus oocytes. The rank order in terms of activity
in vitro of the tested compds. appears to be in general agreement
with that of their acute oral toxicity in rats, as well as that of
their potency measured based on (3H)nicotine binding to rat
recombinant $\alpha 4\beta 2$ -nAChRs. Considering the range of nanomolar
activity of these compds. in (3H) EPI assays using a cockroach
nerve preparation, the data presented here indicate that all
tested compds. are highly selective for cockroach nAChRs vs. rat
 $\alpha 4\beta 2$ -nAChRs.
TI Evaluation of affinity of neonicotinoid insecticides for rat brain
nicotinic acetylcholine receptors by [3H] epibatidine-binding

assay
 CC 4-4 (Toxicology)
 Section cross-reference(s): 5
 IT Brain
 (evaluation of affinity of neonicotinoid insecticides for rat
 brain
 nicotinic acetylcholine receptors by epibatidine-binding
 assay)
 IT Nicotinic receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (evaluation of affinity of neonicotinoid insecticides for rat
 brain
 nicotinic acetylcholine receptors by epibatidine-binding
 assay)
 IT Insecticides
 (neonicotinoid; evaluation of affinity of neonicotinoid
 insecticides
 for rat brain nicotinic acetylcholine receptors by
 epibatidine-binding assay)
 IT 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid 150824-47-
 8,
 Nitenpyram 153719-23-4, Thiamethoxam 165252-70-0, Dinotefuran
 210880-92-5, Clothianidin 322639-07-6, (S)-Dinotefuran
 406466-53-3
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological
 study)
 (evaluation of affinity of neonicotinoid insecticides for rat
 brain
 nicotinic acetylcholine receptors by epibatidine-binding
 assay)
 REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE
 FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L24 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:108925 CAPLUS Full-text
 DOCUMENT NUMBER: 136:274771
 TITLE: Interaction of dinotefuran and its analogues
 with
 nicotinic acetylcholine receptors of
 cockroach nerve cords
 AUTHOR(S): Mori, Kazuki; Okumoto, Takashi; Kawahara,
 Nobuyuki;
 Ozoe, Yoshihisa
 CORPORATE SOURCE: Department of Life Science and Biotechnology,
 Shimane
 University, Shimane, 690-8504, Japan
 SOURCE: Pest Management Science (2002), 58(2),
 190-196
 CODEN: PMSFCF; ISSN: 1526-498X
 PUBLISHER: John Wiley & Sons Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB To investigate the action of dinotefuran (MTI-446, 1-methyl-2-
 nitro-3-(tetrahydro-3-furylmethyl)guanidine), a recently developed
 insecticide, on insect nicotinic acetylcholine receptors (nAChRs),

we determined the potencies of the compound and 22 analogs in inhibiting the specific binding of [3H]epibatidine (EPI), a nAChR agonist, and [3H] α -bungarotoxin (α -BGT), a comparative nAChR antagonist, to the nerve cord membranes of American cockroaches (*Periplaneta americana*). Racemic dinotefuran inhibited [3H]EPI binding with an IC₅₀ of 890 nM and [3H] α -BGT binding with an IC₅₀ of 36.1 μ M. Scatchard anal. indicated that the dinotefuran inhibition of [3H]EPI binding was a competitive one. Slight structural modification caused a drastic reduction in potency; only four analogs were found to be equipotent to or more potent than dinotefuran. Chloropyridinyl and chlorothiazolyl neonicotinoid insecticides displayed two or three orders of magnitude higher potency than dinotefuran. There was a good correlation between the IC₅₀ values of tested compds. obtained with [3H]EPI and those obtained with [3H] α -BGT. A better correlation was observed between 3-h knockdown activities (KD₅₀) against German cockroaches (*Blattella germanica*) and IC₅₀ values obtained from [3H]EPI assays than between 24-h lethal activities (LD₅₀) and IC₅₀ values. While the results indicate that dinotefuran and its analogs interact with the ACh-binding site in cockroach nAChRs, it remains to be elucidated why they displayed lower potencies than those expected based on their insecticidal activities.

TI Interaction of dinotefuran and its analogues with nicotinic acetylcholine receptors of cockroach nerve cords
CC 5-4 (Agrochemical Bioregulators)
ST dinotefuran insecticide nicotinic acetylcholine receptor cockroach; neonicotinoid insecticide *Periplaneta* nerve cord
IT Structure-activity relationship
(insecticidal; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
IT *Periplaneta americana*
(interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
IT Nicotinic receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
IT Insecticides
(neonicotinoid; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
IT Nervous system
(nerve cord; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)
IT Structure-activity relationship
(nicotinic receptor-binding; interaction of dinotefuran and its analogs with nicotinic acetylcholine receptors of cockroach nerve cords)

IT	165252-51-7	165252-70-0, Dinotefuran	165252-73-3	165252-87-9
	165253-05-4	165253-10-1	168688-99-1	174458-00-5
8				174458-03-
	182426-48-8	183050-37-5	185043-87-2	201141-17-5
6				322639-07-
	406466-23-7	406466-24-8	406466-26-0	406466-28-2
				406466-31-

7

406466-37-3 406466-40-8 406466-44-2 406466-50-0 406466-53-

3

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(interaction with nicotinic acetylcholine receptors of
cockroach nerve cords)

IT 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid 150824-47-
8,

Nitenpyram 153719-23-4, Thiamethoxam 210880-92-5, Clothianidin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(interaction with nicotinic acetylcholine receptors of
cockroach nerve cords as compared to dinotefuran and its

analogues)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE
FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L24 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:549118 CAPLUS Full-text

DOCUMENT NUMBER: 131:181124

TITLE: Aqueous formulations for combating parasitic
insects

and acarina on humans

INVENTOR(S): Sirinyan, Kirkor; Horn, Karin; Stocker, Ronald
Helmut;

Sonneck, Rainer

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9941987	A1	19990826	WO 1999-EP878	
19990210 <--				
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,				
CZ, DE,				
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,				
IS, JP,				
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,				
MK, MN,				
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,				
TJ, TM,				
TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE,				
DK, ES,				
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
CG, CI,				
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19807630	A1	19990826	DE 1998-19807630	
19980223 <--				
CA 2321206	A1	19990826	CA 1999-2321206	

19990210 <--
 AU 9925230 A 19990906 AU 1999-25230
 19990210 <--
 AU 739980 B2 20011025
 BR 9908197 A 20001024 BR 1999-8197
 19990210 <--
 TR 200002441 T2 20001121 TR 2000-2441
 19990210 <--
 EP 1056342 A1 20001206 EP 1999-904877
 19990210 <--
 EP 1056342 B1 20030820
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, FI
 HU 2001000959 A2 20010828 HU 2001-959
 19990210 <--
 JP 2002503682 T 20020205 JP 2000-532014
 19990210 <--
 AT 247384 T 20030915 AT 1999-904877
 19990210 <--
 PT 1056342 T 20031231 PT 1999-904877
 19990210 <--
 ES 2205770 T3 20040501 ES 1999-904877
 19990210 <--
 CN 1294812 C 20070117 CN 1999-803231
 19990210 <--
 ZA 9901384 A 19990823 ZA 1999-1384
 19990222 <--
 IN 2000MN00226 A 20050715 IN 2000-MN226
 20000727 <--
 US 6369054 B1 20020409 US 2000-601572
 20000803 <--
 MX 2000008052 A 20010405 MX 2000-8052
 20000817 <--
 HK 1035993 A1 20070914 HK 2001-107011
 20011005 <--
 PRIORITY APPLN. INFO.: DE 1998-19807630 A
 19980223 <-- WO 1999-EP878 W

19990210 <--
 OTHER SOURCE(S): MARPAT 131:181124

AB The invention relates to aqueous formulations for combating
 parasitic insects and acarina on the skin of human beings, having
 the following composition: agonists or antagonists of nicotinic
 acetylcholine receptors of insects, such as imidacloprid, at
 0.0001-7.5 weight %; water, at 20-50 weight %; acyclic alcs., at
 20-50 weight %; solvents from the group of cyclic carbonates or
 lactones, .5-20.0 weight %; and, optionally, other adjuvants from
 the group of thickening agents, antioxidants, expanding agents,
 preserving agents, deposit builders and emulsifiers, at ≥30 weight
 %.

TI Aqueous formulations for combating parasitic insects and acarina
 on humans

IC ICM A01N051-00
 ICS A01N061-00; A01N051-00; A01N043-08; A01N031-02; A01N025-02;
 A01N061-00; A01N043-08; A01N031-02; A01N025-02

CC 5-4 (Agrochemical Bioregulators)

IT Nicotinic agonists
 Nicotinic antagonists
 Pesticide formulations
 (aqueous ectoparasitocidal formulation for humans)

IT 58842-20-9 101336-63-4 101336-64-5 105827-70-1 105828-97-5
 105843-35-4 105843-36-5 111988-43-3 111988-49-9 111988-51-
 3
 120738-88-7 120738-89-8 131748-47-5 131748-49-7 131748-54-
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 131748-55-5 131768-12-2 135410-20-7 135410-92-3 136516-18-
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 136516-19-3, AKD 1022 138261-41-3, Imidacloprid 138681-61-5
 153719-22-3 153719-23-4 165252-70-0 165253-13-4 171103-03-
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 171103-04-1 172333-79-8 172333-80-1 172333-81-2 185043-87-
 2

210880-92-5, Ti 435

RL: BUU (Biological use, unclassified); THU (Therapeutic use);

BIOL

(Biological study); USES (Uses)

(aqueous ectoparasitocidal formulation for humans)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L24 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:549117 CAPLUS Full-text

DOCUMENT NUMBER: 131:166526

TITLE: Aqueous formulations of animal
 ectoparasitocides

INVENTOR(S): Sirinyan, Kirkor; Dorn, Hubert; Heukamp,
 Ulrich

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9941986	A1	19990826	WO 1999-EP875	
19990210 <--				
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,				
CZ, DE,				
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,				
IS, JP,				
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,				
MK, MN,				
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,				
TJ, TM,				
TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE,				
DK, ES,				

	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,		
CG, CI,			
	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
DE 19807633	A1	19990826	DE 1998-19807633
19980223 <--			
CA 2321209	A1	19990826	CA 1999-2321209
19990210 <--			
AU 9926230	A	19990906	AU 1999-26230
19990210 <--			
AU 750954	B2	20020801	
BR 9908173	A	20001031	BR 1999-8173
19990210 <--			
EP 1056343	A1	20001206	EP 1999-906223
19990210 <--			
EP 1056343	B1	20041013	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT,			
IE, SI,			
	LT, LV, FI, RO		
TR 200002443	T2	20001221	TR 2000-2443
19990210 <--			
HU 2001000790	A2	20010828	HU 2001-790
19990210 <--			
JP 2002503681	T	20020205	JP 2000-532013
19990210 <--			
EE 200000485	A	20020215	EE 2000-485
19990210 <--			
NZ 506460	A	20030131	NZ 1999-506460
19990210 <--			
TW 581660	B	20040401	TW 1999-88102018
19990210 <--			
RU 2232505	C2	20040720	RU 2000-124395
19990210 <--			
AT 279114	T	20041015	AT 1999-906223
19990210 <--			
PT 1056343	T	20050131	PT 1999-906223
19990210 <--			
ES 2230835	T3	20050501	ES 1999-906223
19990210 <--			
IL 137618	A	20060820	IL 1999-137618
19990210 <--			
CN 1328958	C	20070801	CN 1999-805324
19990210 <--			
ZA 9901385	A	19990823	ZA 1999-1385
19990222 <--			
BG 104690	A	20011031	BG 2000-104690
20000815 <--			
BG 64814	B1	20060531	
MX 2000008051	A	20010405	MX 2000-8051
20000817 <--			
NO 2000004188	A	20001023	NO 2000-4188
20000822 <--			
NO 324076	B1	20070806	
HK 1037479	A1	20080523	HK 2001-108376
20011128 <--			
US 20030162773	A1	20030828	US 2003-347003
20030117 <--			
US 7384938	B2	20080610	

PRIORITY APPLN. INFO.:
19980223 <--

DE 1998-19807633 A

WO 1999-EP875 W

19990210 <--

US 2000-622660 B1

20000821 <--

OTHER SOURCE(S): MARPAT 131:166526

AB The invention relates to aqueous formulations for combating parasitic insects and acarina on the skin of animals, having the following composition: (a) agonists or antagonists of nicotinic acetylcholine receptors of insects, at 1-20 weight %; (b) water, at 2.5-15 weight %; (c) solvents from the group of alcs., such as benzyl alc., tetrahydrofurfuryl alc. or optionally-substituted pyrrolidone, at ≥ 20 weight %; (d) solvents from the group of the cyclic carbonates or lactones. at 5-50.0 weight %; (e) optionally, other adjuvants from the group of the thickening agents, spreading agents, colorants, antioxidants, expanding agents, preserving agents, deposit builders and emulsifiers, at 0.025-10 weight %.

TI Aqueous formulations of animal ectoparasitocides

IC ICM A01N051-00

ICS A01N061-00; A01N051-00; A01N043-36; A01N043-08; A01N031-04;
A01N025-02; A01N061-00; A01N043-36; A01N043-08; A01N031-04;
A01N025-02

CC 5-4 (Agrochemical Bioregulators)

Section cross-reference(s): 2

IT Nicotinic agonists

Nicotinic antagonists

(in aqueous formulations of animal ectoparasitocides)

IT 58842-20-9 101336-63-4 101336-64-5 105827-70-1 105828-97-5

105843-35-4 105843-36-5 111988-43-3 111988-49-9 111988-51-

3

120738-88-7 120738-89-8 131748-47-5 131748-49-7 131748-54-

4

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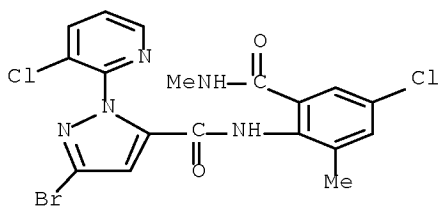
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L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
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CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
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INDEX NAME)
OTHER NAMES:
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CN Chlorantraniliprole
CN Coragen
CN DKI 0001
CN DPX-E 2Y45
CN E 2Y45
CN Rynaxypyr
DR 921612-71-7
MF C18 H14 Br Cl2 N5 O2
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USPAT2, USPATFULL
(*File contains numerically searchable property data)



<http://www.cas.org/legal/infopolicy.html>

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L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:270097 CAPLUS Full-text
DOCUMENT NUMBER: 140:282468
TITLE: Cloning and characterization of insect
ryanodine receptors and their use for screening for
insecticidal compounds
INVENTOR(S): Caspar, Timothy; Cordova, Daniel; Gutteridge,
Steven; Rauh, James J.; Smith, Rejane M.; Wu, Lihong;
Tao, Yong
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 731 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRIORITY APPLN. INFO.: US 2002-412795P P
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20030923
AB The genes encoding ryanodine receptor homologs are provided from
multiple insect families including lepidopteran tobacco budworm
(*Heliothis virescens*), homopteran green peach aphid (*Myzus*
Peregrinus maidis), cotton melon
aphid (*Aphis gossypii*), and fruitfly (*Drosophila melanogaster*).
The full-length genes were isolated, cloned, and amplified in
bacterial cells. Expression in insect cells shows that the
recombinant protein folds into a functional calcium release
channel. The genes and their corresponding polypeptides have a
number of uses including, but not limited to, the isolation of
other pest ryanodine receptors, the development of screens to
identify insecticidally active compds., use of fragments of genes
as pesticides, fragments of protein for antibody production,
fragments of protein for determination of the structure of
insecticide binding sites, and identification of insecticides that
disrupt the calcium balance in cells through other messengers that
interact with the receptor calcium release mechanism. Methods are
outlined for overcoming toxic effects of expressing recombinant
proteins in host cells.

TI Cloning and characterization of insect ryanodine receptors and
their use
for screening for insecticidal compounds
IC ICM C12N
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 5, 6, 12
IT 58-08-2, Caffeine, biological studies 11103-72-3, Ruthenium red
15662-33-6, Ryanodine 23214-92-8, Doxorubicin 101927-49-5
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RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(cloning and characterization of insect ryanodine receptors and
their
use for screening for insecticidal compds.)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:101149 CAPLUS Full-text
DOCUMENT NUMBER: 140:146150
TITLE: Method for preparing fused oxazinones by
cyclocondensation of ortho-amino aromatic
carboxylic
acids with carboxylic acids
INVENTOR(S): Taylor, Eric Deguyon
PATENT ASSIGNEE(S): E.I. Du Pont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 20030729
 OTHER SOURCE(S): MARPAT 140:146150
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE
 PRINT *

AB A method for preparing a fused oxazinone [I; J = an optionally substituted carbon moiety; K together with the two contiguous linking carbon atoms = each (un)substituted a fused Ph ring or a fused 5- or 6-membered heteroarom. ring] is disclosed in which (1) a carboxylic acid of formula J-CO₂H is contacted with a sulfonyl chloride of formula LS(O)₂Cl [L= each (un)substituted alkyl, haloalkyl, or Ph] in the presence of an optionally substituted pyridine compound, the nominal mole ratio of sulfonyl chloride to carboxylic acid being from about 0.75 to 1.5; (2) the mixture prepared in (1) is contacted with an ortho-amino aromatic carboxylic acid in the presence of an optionally substituted pyridine compound, the nominal mole ratio of the ortho-amino aromatic carboxylic acid to carboxylic acid (II; K = same as above) charged in (1) being from about 0.8 to 1.2; and (3) addnl. sulfonyl chloride is added to the mixture prepared in (2), the nominal mole ratio of addnl. sulfonyl chloride added in (3) to carboxylic acid charged in (1) being at least about 0.5. More specifically disclosed is a method for preparing a compound of formula (III) [X = N, CR₆; Y = N, CH; R₁ = H, R₂ = H, Me; R₃ = C₁-6 alkyl; R₄ = C₁-4 alkyl, halo; R₅ = H, C₁-4 alkyl, C₁-4 haloalkyl, halo; R₆, R₇ = H, C₁-4 alkyl, C₁-4 haloalkyl, halo, cyano, C₁-4 haloalkyl; R₈ = H, C₁-4 alkyl, C₂-4 alkenyl, C₂-4 alkynyl, C₃-6 cycloalkyl, C₁-4 haloalkyl, C₂-4 haloalkenyl, C₂-4 haloalkynyl, C₃-6 halocycloalkyl, halogen, cyano, NO₂, C₁-4 alkoxy, C₁-4 haloalkoxy, C₁-4 alkylthio, C₁-4 alkylsulfinyl, C₁-4 alkylsulfonyl, C₁-4 alkylamino, C₂-8 dialkylamino, C₃-6 cycloalkylamino, (C₁-4 alkyl)(C₃-6 cycloalkyl)amino, etc.; R₉ = CF₃, OCF₃, OCHF₂, OCH₂CF₃, S(O)_pCF₃, S(O)_pCHF₂, halo; p = 0-2] using a compound of formula (IV; R₁ -R₅ = same as above; R₇-R₉ = same as above; X, Y = same as above) that is characterized by preparing the fused oxazinone IV by the method above, using a

compound of the formula LS(O)2Cl as the sulfonyl chloride, a compound of formula (V) (R7-R9 = same as above) as the carboxylic acid, and a compound of formula (VI) (R4, R5 = same as above) as the ortho-amino aromatic carboxylic acid.

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:242097 CAPLUS Full-text

DOCUMENT NUMBER: 138:267201

TITLE: Pesticidal compositions for coating plant propagation

INVENTOR(S): material containing anthranilamides
Berger, Richard Alan; Flexner, John Lindsey

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

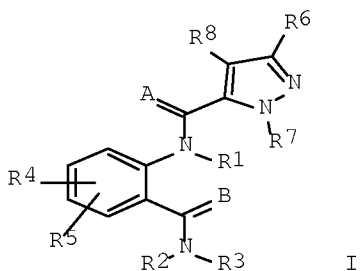
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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OTHER SOURCE(S):	MARPAT 138:267201			
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AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an

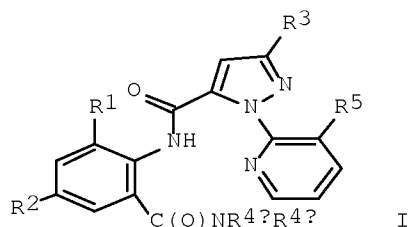
agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:154155 CAPLUS Full-text
 DOCUMENT NUMBER: 138:200332
 TITLE: Arthropodicidal anthranilamides
 INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson,
 Thomas Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

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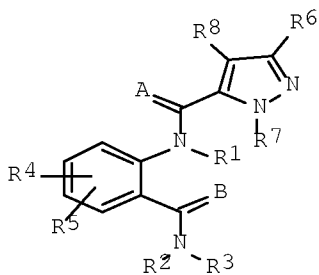


AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurstaki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:154154 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 138:200331
 TITLE: Method for controlling particular insect pests
 by
 applying anthranilamide compounds
 INVENTOR(S): Lahm, George Philip; McCann, Stephen
 Frederick; Patel,
 Kanu Maganbhai; Selby, Thomas Paul; Stevenson,
 Thomas
 Martin
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 150 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

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OTHER SOURCE(S) :	MARPAT 138:200331			
GI				



I

AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e 210880-92-5/rn

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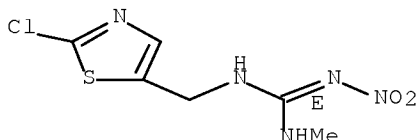
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L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 210880-92-5 REGISTRY
ED Entered STN: 06 Sep 1998
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-,
[C(E)]-
(CA INDEX NAME)
OTHER NAMES:
CN Apacz
CN Arena
CN Belay
CN Celero
CN Clothianidin
CN Clutch
CN Clutch (insecticide)
CN Dantotsu
CN Fullswing
CN Poncho
CN Takeloc CLMN 10
CN Takeloc MC 50E
CN TI 435
CN TM 44401
CN V 10170
FS STEREOSEARCH
DR 205510-53-8
MF C6 H8 Cl N5 O2 S

CI COM
 SR CA
 LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
 CHEMCATS,
 CHEMLIST, CSCHEM, HSDB*, MRCK*, PATDPASPC, RTECS*, TOXCENTER,
 ULIDAT,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Double bond geometry as shown.



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 15 and (syner? or agonist?)
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=> s 17 and (py<2003 or ay<2003 or pry<2003)
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L8 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:384278 CAPLUS Full-text
 DOCUMENT NUMBER: 136:381758
 TITLE: Synergistic pesticides in rice paddies
 INVENTOR(S): Akayama, Atsuo; Yamawaki, Takahiro
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002145709	A	20020522	JP 2001-259699	
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PRIORITY APPLN. INFO.:			JP 2000-260812	A
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OTHER SOURCE(S):	MARPAT 136:381758			
AB	A synergistic pesticide contains an insecticide like clothianidin, a microbicide like isoprothiolane, and a herbicide. A number of Markush structures of pesticides are claimed.			
TI	Synergistic pesticides in rice paddies			
IC	ICM A01N047-38			
	ICS A01N037-22; A01N037-24; A01N041-04; A01N043-10; A01N043-76; A01N043-78; A01N043-86; A01N047-12; A01N047-36; A01N051-00			
CC	5-3 (Agrochemical Bioregulators)			
ST	synergism insecticide microbicide herbicide rice			
IT	Fungicides			
	Herbicides			
	Insecticides			
	Molluscicides			
	(in synergistic pesticides for rice paddies)			
IT	Pyricularia oryzae			
	(synergistic pesticides for rice paddies for control of)			
IT	15263-52-2, Cartap hydrochloride 50512-35-1, Isoprothiolane 122548-33-8, Imazosulfuron 125306-83-4, Cafenstrole 210880-92-5, Clothianidin			
	RL: AGR (Agricultural use); BSU (Biological study, unclassified);			
BIOL	(Biological study); USES (Uses)			
	(in synergistic pesticides for rice paddies)			
IT	108-62-3, Metaldehyde 27605-76-1 41814-78-2 51218-49-6, Pretilachlor			
	57369-32-1 73250-68-7, Mefenacet 79540-50-4, Etobenzanid			
85785-20-2,	Esprocarb 88678-67-5, Pyributicarb 104030-54-8 110956-75-7, Pentoxazone 115852-48-7 135158-54-2 152542-38-6 153197-14-			
9,	Oxaziclomefone 158237-07-1, Fentrazamide			
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BIOL	(Biological study); USES (Uses)			
	(in synergistic pesticides in rice paddies)			
IT	427893-57-0			
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BIOL	(Biological study); USES (Uses)			
	(synergistic pesticides for rice paddies)			
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	RL: AGR (Agricultural use); BSU (Biological study, unclassified);			
BIOL	(Biological study); USES (Uses)			

(synergistic pesticides in rice paddies)

L8 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:108925 CAPLUS Full-text
DOCUMENT NUMBER: 136:274771
TITLE: Interaction of dinotefuran and its analogues
with
nicotinic acetylcholine receptors of cockroach
nerve
cords
AUTHOR(S): Mori, Kazuki; Okumoto, Takashi; Kawahara,
Nobuyuki;
Ozoe, Yoshihisa
CORPORATE SOURCE: Department of Life Science and Biotechnology,
Shimane
University, Shimane, 690-8504, Japan
SOURCE: Pest Management Science (2002), 58(2),
190-196
CODEN: PMSCFC; ISSN: 1526-498X
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To investigate the action of dinotefuran (MTI-446, 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine), a recently developed insecticide, on insect nicotinic acetylcholine receptors (nAChRs), we determined the potencies of the compound and 22 analogs in inhibiting the specific binding of [3H]epibatidine (EPI), a nAChR agonist, and [3H] α -bungarotoxin (α -BGT), a comparative nAChR antagonist, to the nerve cord membranes of American cockroaches (*Periplaneta americana*). Racemic dinotefuran inhibited [3H]EPI binding with an IC₅₀ of 890 nM and [3H] α -BGT binding with an IC₅₀ of 36.1 μ M. Scatchard anal. indicated that the dinotefuran inhibition of [3H]EPI binding was a competitive one. Slight structural modification caused a drastic reduction in potency; only four analogs were found to be equipotent to or more potent than dinotefuran. Chloropyridinyl and chlorothiazolyl neonicotinoid insecticides displayed two or three orders of magnitude higher potency than dinotefuran. There was a good correlation between the IC₅₀ values of tested compds. obtained with [3H]EPI and those obtained with [3H] α -BGT. A better correlation was observed between 3-h knockdown activities (KD₅₀) against German cockroaches (*Blattella germanica*) and IC₅₀ values obtained from [3H]EPI assays than between 24-h lethal activities (LD₅₀) and IC₅₀ values. While the results indicate that dinotefuran and its analogs interact with the ACh-binding site in cockroach nAChRs, it remains to be elucidated why they displayed lower potencies than those expected based on their insecticidal activities.

TI Interaction of dinotefuran and its analogues with nicotinic
acetylcholine
receptors of cockroach nerve cords

CC 5-4 (Agrochemical Bioregulators)

IT 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid 150824-47-
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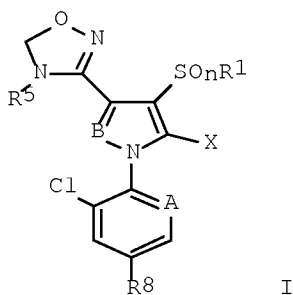
Nitenpyram 153719-23-4, Thiamethoxam 210880-92-5, Clothianidin
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(interaction with nicotinic acetylcholine receptors of
cockroach nerve
cords as compared to dinotefuran and its analogs)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE
FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:423412 CAPLUS Full-text
DOCUMENT NUMBER: 135:30294
TITLE: Synergistic insecticidal compositions
containing oxadiazoline derivatives, insect
control,
and enhancement of insecticidal action of the
derivatives
INVENTOR(S): Akayama, Atsuo
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001158785	A	20010612	JP 1999-340604	
19991130 <--				
PRIORITY APPLN. INFO.:			JP 1999-340604	
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OTHER SOURCE(S):	MARPAT	135:30294		
GI				



AB Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6
haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which
may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl),
N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be
substituted with OH or C1-3 alkoxy), pyrrolyl; R5 =
(un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6

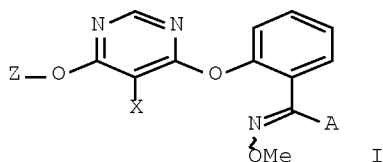
haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n =1, R1 = R8 = CF3, R5 = CONMe2, A = CCl, B = N, X = N:CHOCHMe2) (preparation given) and clothianidin showed synergistic action against Plutella maculipennis larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

L8 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:349202 CAPLUS Full-text
DOCUMENT NUMBER: 132:344443
TITLE: Synergistic fungicidal compositions.
INVENTOR(S): Mauler-Machnik, Astrid; Wachendorf-Neumann, Ulrike;
Gayer, Herbert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 18 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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ES 2238853	T3	20050901	ES 1999-953975	
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OTHER SOURCE(S):	MARPAT 132:344443			
GI				



AB The title compns. comprise the pyrimidine derivs. I [Z = (un)substituted Ph; X = halo; A = heterocyclyl, CO₂Me or CHNHMe] and any of a large number of known fungicides.

TI Synergistic fungicidal compositions.

IC ICM A01N043-54

CC 5-2 (Agrochemical Bioregulators)

ST pyrimidine deriv fungicide synergism

IT Fungicides

L8 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:549118 CAPLUS Full-text

DOCUMENT NUMBER: 131:181124

TITLE: Aqueous formulations for combating parasitic insects

and acarina on humans

INVENTOR(S): Sirinyan, Kirkor; Horn, Karin; Stocker, Ronald Helmut;

Sonneck, Rainer

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9941987	A1	19990826	WO 1999-EP878	
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RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

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ES 2205770	T3	20040501	ES 1999-904877
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19990210 <--

OTHER SOURCE(S): MARPAT 131:181124

AB The invention relates to aqueous formulations for combating parasitic insects and acarina on the skin of human beings, having the following composition: agonists or antagonists of nicotinic acetylcholine receptors of insects, such as imidacloprid, at 0.0001-7.5 weight %; water, at 20-50 weight %; acyclic alcs., at 20-50 weight %; solvents from the group of cyclic carbonates or lactones, .5-20.0 weight %; and, optionally, other adjuvants from the group of thickening agents, antioxidants, expanding agents, preserving agents, deposit builders and emulsifiers, at ≥ 30 weight %.

TI Aqueous formulations for combating parasitic insects and acarina on humans

IC ICM A01N051-00

ICS A01N061-00; A01N051-00; A01N043-08; A01N031-02; A01N025-02;
A01N061-00; A01N043-08; A01N031-02; A01N025-02
CC 5-4 (Agrochemical Bioregulators)
IT Nicotinic agonists
Nicotinic antagonists
Pesticide formulations
(aqueous ectoparasitocidal formulation for humans)
IT 58842-20-9 101336-63-4 101336-64-5 105827-70-1 105828-97-5
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210880-92-5, Ti 435
RL: BUU (Biological use, unclassified); THU (Therapeutic use);
BIOL (Biological study); USES (Uses)
(aqueous ectoparasitocidal formulation for humans)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L8 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:549117 CAPLUS Full-text
DOCUMENT NUMBER: 131:166526
TITLE: Aqueous formulations of animal
ectoparasitocides
INVENTOR(S): Sirinyan, Kirkor; Dorn, Hubert; Heukamp,
Ulrich
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9941986	A1	19990826	WO 1999-EP875	
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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,				
CZ, DE,				
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,				
IS, JP,				
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,				
MK, MN,				
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,				
TJ, TM,				

TR, TT, UA, UG, US, UZ, VN, YU, ZW
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
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 OTHER SOURCE(S): MARPAT 131:166526
 AB The invention relates to aqueous formulations for combating
 parasitic insects and acarina on the skin of animals, having the
 following composition: (a) agonists or antagonists of nicotinic
 acetylcholine receptors of insects, at 1-20 weight %; (b) water,
 at 2.5-15 weight %; (c) solvents from the group of alcs., such as
 benzyl alc., tetrahydrofurfuryl alc. or optionally-substituted
 pyrrolidone, at ≥20 weight %; (d) solvents from the group of the
 cyclic carbonates or lactones. at 5-50.0 weight %; (e) optionally,
 other adjuvants from the group of the thickening agents, spreading
 agents, colorants, antioxidants, expanding agents, preserving
 agents, deposit builders and emulsifiers, at 0.025-10 weight %.
 TI Aqueous formulations of animal ectoparasitocides
 IC ICM A01N051-00
 ICS A01N061-00; A01N051-00; A01N043-36; A01N043-08; A01N031-04;
 A01N025-02; A01N061-00; A01N043-36; A01N043-08; A01N031-04;
 A01N025-02
 CC 5-4 (Agrochemical Bioregulators)
 Section cross-reference(s): 2
 IT Nicotinic agonists
 Nicotinic antagonists
 (in aqueous formulations of animal ectoparasitocides)
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 RL: BUU (Biological use, unclassified); BIOL (Biological study);
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